## **CLAIMS**

1. A system for contacting a vehicle occupant during sudden deceleration of the vehicle, the system comprising:

a contact surface for interacting with the vehicle occupant;

a fixed energy absorption device attached to a structural member of the vehicle;

a deployable energy absorption device in contact with the contact surface and the fixed energy absorption device; and

an energy absorption modifier in communication with the fixed energy absorption device for varying the energy absorption characteristics of the fixed energy absorption device.

- 2. The system of claim 1 wherein contact surface includes a deformable foam layer.
- 3. The system of claim 1 wherein the fixed energy absorption device is a deformable metal bracket.
- 4. The system of claim 3 wherein the deformable metal bracket is a U-shaped bracket.
- 5. The system of claim 1 wherein the deployable energy absorption device is an inflatable airbag.

- 6. The system of claim 1 wherein the energy absorption modifier is a pyrotechnic device.
- 7. The system of claim 1 wherein the energy absorption modifier is a pyrotechnic bolt that disconnects the fixed energy absorption device from the structural member of the vehicle.
- 8. The system of claim 1 further comprising a frangible structural member connected at a first end to the contact surface and at a second end to the structural member of the vehicle.
- 9. A system for contacting a vehicle occupant during sudden deceleration of the vehicle, the system comprising:
  - a contact surface for interacting with a vehicle occupant;
- a fixed energy absorption device attached to a structural member of the vehicle;
- a frangible structural member connected at a first end to the contact surface and at a second end to the structural member of the vehicle;
- a deployable energy absorption device in contact with the contact surface and the fixed energy absorption device; and
- an energy absorption modifier in communication with the frangible structural member for varying the energy absorption characteristics of the frangible structural member.

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10. The system of claim 9 wherein contact surface includes a deformable foam layer.

11. The system of claim 9 wherein the fixed energy absorption device is a deformable metal bracket.

12. The system of claim 11 wherein the deformable metal bracket is a U-shaped bracket.

13. The system of claim 9 wherein the deployable energy absorption device is an inflatable airbag.

14. The system of claim 9 wherein the energy absorption modifier is a pyrotechnic device.

15. The system of claim 9 wherein the energy absorption modifier is a pyrotechnic bolt that disconnects the fixed energy absorption device from the structural member of the vehicle.